

Abstract

5 This invention provides for a novel orthopedic
prosthesis, specifically a prosthetic acetabular
component for a prosthetic total hip joint, that
comprises two constructs, one being a metal base
construct that engages the bone and the other being a
polyethylene bearing construct that attaches to the
metal base construct and articulates with a femoral
stem prosthetic component on the opposing side of the
10 joint. The metal base construct is composed of two
different metals, one of which engages the bone
surface and the other of which engages the
polyethylene bearing construct. Each of these metals
is selected so that its characteristics are well
15 suited to its particular function. More particularly,
the first metal (i.e., the one that engages the bone
surface) is selected so as to provide a superior
bone-engaging face, while the second metal (i.e., the
one that engages the polyethylene bearing construct)
20 is selected so as to provide a superior

polyethylene-engaging face. By combining the different material characteristics of two different metals in the metal bone construct, it is possible to simultaneously form a superior bone-engaging face and a superior polyethylene-engaging face.

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